

parallax direction, and ~~to separately project-projects~~ said plurality of images in said parallax direction on said hologram recording medium, wherein

each of said plurality of images corresponds to a respective element hologram, and

the number of said plurality of images is less than the number of element holograms included in said holographic stereogram.

2. (Previously Amended) The holographic stereogram exposure apparatus according to claim 1 further including a reference beam optical system that projects a reference beam onto said hologram recording medium for interference with said plurality of images projected on said hologram recording medium.

3. (Previously Amended) The holographic stereogram exposure apparatus according to claim 1, wherein said object beam optical system comprises a superposed projection optical system for projecting said light beams passing through said spatial light modulation means to form said superposed image, and a beam-condensing projection optical system for condensing said superposed image to project said plurality of images onto said hologram recording medium.

4. (Previously Amended) The holographic stereogram exposure apparatus according to claim 3, wherein said spatial light modulation means is divided into a horizontal direction.

5. (Previously Amended) The holographic stereogram exposure apparatus according to claim 3, wherein said spatial light modulation means is divided into both vertical and horizontal directions.

6. (Previously Cancelled)

7. (Currently Amended) The holographic stereogram exposure apparatus according to claim 3, wherein said beam-condensing projection optical system projects

said superposed image onto said hologram recording medium in a non-parallax direction and condenses said superposed image in a parallax direction.

8. (Previously Amended) The holographic stereogram exposure apparatus according to claim 3, wherein said beam-condensing projection optical system uses a first-group lens and a second-group lens to guide said superposed image to a beam-condensing cylindrical lens.

9. (Previously Amended) The holographic stereogram exposure apparatus according to claim 8, wherein said beam-condensing projection optical system is provided with a correction lens between said first-group lens and said second-group lens for correcting unevenness of the angle of field for each element hologram on said hologram recording medium.

10. (Previously Amended) A holographic stereogram exposure method of exposing three-dimensional image information onto a hologram recording medium to produce a holographic stereogram, said method comprising:

an object beam projection step for projecting light beams passed through a plurality of images separately displayed in a parallax direction to form a superposed image of said plurality of images, and condensing said superposed image to separately project said plurality of images on said hologram recording medium in said parallax direction; and

a reference beam projection step for projecting a reference beam onto said hologram recording medium for interference with said light beams projected on said hologram recording medium, wherein

each of said plurality of images corresponds to a respective element hologram, and

the number of said plurality of images is less than the number of element holograms included in said holographic stereogram.

11. (Previously Cancelled)

12. (Previously Amended) A holographic stereogram generation system for recording three-dimensional image information on a hologram recording medium and generating a holographic stereogram, comprising

an image generation system for generating a plurality of images in a parallax direction, including a spatial light modulation means for separately displaying said plurality of images in said parallax direction ;

an object beam optical system for projecting light beams through said plurality of images generated by said image generation system and displayed on said spatial light modulations means in the parallax direction, to form a superposed image of said plurality of images on said holographic medium; and projecting images corresponding to the number of separations on said hologram recording medium; and

a reference beam optical system for projecting a reference beam on said hologram recording medium for interference with said image projected on said hologram recording medium by said object beam optical system, wherein

each of said plurality of images corresponds to a respective element hologram, and

the number of said plurality of images is less than the number of element holograms included in said holographic stereogram.